

AUTHOR INDEX

(Figures Refer to Abstract Numbers)

- Aborn, M., 1507
 Alajouanine, T., 1550
 Altmann, F., 1328
 Alvig, D. P., 1370
 Anderson, P., 1404
 Angelergues, R., 1556
 Anon., 1391, 1405
 Anson, B. J., 1334
 Ardissone, M. B. de, 1460
 Arnold, G. E., 1578
 Aron, M., 1592
 Asling, C. W., 1425
- Back, D. E., 1554
 Baldan, G., 1495
 Baldwin, A. L., 1505
 Ball, G., 1502
 Ballinger, R. M., 1370
 Barbara, D. A., 1591
 Barn, J., 1557
 Barney, H. L., 1579
 Basek, M., 1328
 Bauman, S., 1592
 Becker, W., 1426
 Békésy, G. V., 1329, 1330, 1593
 Beran, A. V., 1339
 Berlow, D. K., 1503
 Herruacos, M. P. V., 1449
 Bilgman, S. K., 1406
 Bilger, R. C., 1432
 Black, J. W., 1509
 Boardman, E., 1594
 Boenninghaus, H.-G., 1392
 Bonkowski, R. J., 1601
 Boomer, D. S., 1595
 Børild, K., 1388
 Bosma, J., 1514
 Botes, M. L., 1540
 Bower, D., 1407
 Boyd, J., 1393, 1394
 Brannon, W. R., 1408
 Bruce, D. J., 1525
 Bruno, G., 1584
 Bulgarelli, R., 1427
 Bunker, A. M., 1450
 Butler, R. A., 1435
- Carhart, R., 1443
 Carnell, C. M. Jr., 1596
 Carter, R. L., 1338
 Cary, F. H., 1428
 Casanovas, J., 1597
 Castaneda, A., 1526
 Castelan Vaz, L. G., 1389
 Catania, A. C., 1542
 Cenacchi, V., 1429
 Cercello, P., 1585
 Chaiken, N., 1570
 Chase, R. A., 1499
 Chilaris, G., 1430
 Chladek, V., 1433
 Church, J., 1529
 Churlo, E., 1586
 Clemency, W. F., 1347
 Close, F., 1431
 Cohen, A., 1358
 Conner, L., 1420
 Connor, L. E., 1395
 Corso, J. F., 1359
 Costa, M. A. R., 1544
 Costello, M. R., 1390
 Coyell, W. P., 1432
 Coyne, A., 1430
 Crowl, L., 1563
 Crum, C., 1463
 Curry, E. T., 1580
- Darlington, C. D., 1515
 David, E. E., 1348, 1356, 1401
 Davidson, G. D., 1455
 Davis, H., 1432
 Deathridge, B. H., 1331
 Deme, L., 1516
 Denhoff, E., 1553
- Denny, J. V., 1570
 Derbyshire, A. J., 1338
 Dickson, C., 1363
 Dickson, E. D. D., 1472
 Dirks, D., 1443, 1444
 Dolson, C. C., 1482
 Doerfler, L. G., 1379
 Dohn, S., 1462
 Douglass, F. M., 1572
- Eagles, E. L., 1379
 Egan, J. P., 1360, 1361
 Eisenberg, M., 1434
 Eldredge, D. H., 1432
 Elliott, M., 1409
 Eriksen, C. W., 1528
 Ervin, S. M., 1527
- Fahel, L. S., 1526
 Falberg, R. M., 1473
 Faltýnek, L., 1396
 Fasano, V. A., 1585
 Fernandez, C., 1381, 1435
 Fillmore, C. J., 1513
 Fine, B. J., 1358
 Fink, S. L., 1545
 Fisch, L., 1554
 Fitch, N., 1564
 Foster, G., 1527
 Fourquet, J. von, 1517
 Fowler, E. P., 1572
 Francocci, G., 1463
 Franz, H., 1332
 French, J. R. W., 1410
 Fricker, H., 1380
 Friedlander, D., 1442
 Fry, W. J., 1349
 Fuhrer, M. J., 1528
 Furth, H. G., 1464
- Gabrielli, L., 1429
 Gales, R. S., 1512
 Gallagher, J. J., 1555
 Gallwey, M., 1505
 Gankova, Z. A., 1530
 Gant, J., 1411
 Gardner, W. H., 1581
 Garwood, V. P., 1339
 Gilliat, M. E., 1474
 Glorig, A., 1377, 1437, 1475
 Glovsky, L., 1458
 Goldberg, J. M., 1333
 Goldman-Eisler, F., 1518
 Goodale, W. D., 1347
 Goodrich, D. W., 1595
 Gorshina, E. P., 1412
 Greenberg, G. Z., 1360, 1361
 Greenwood, D. D., 1350
 Grings, W., 1397
 Gross, N. B., 1345
- Hall, J. F., 1365
 Hamlin, R. M., 1573
 Hanson, J. R., 1334
 Harris, H. E., 1581
 Harris, K. S., 1488
 Heenan, H., 1556
 Heinz, J. M., 1487
 Hellman, R. P., 1368
 Henderson, S. C., 1476
 Hines, R. C., 1413
 Hirsch, K., 1568
 Hirschfeld, S., 1574
 Hudak, R., 1335
 Hlaváček, V., 1433
 Honnard, R., 1397
 Horlick, R. S., 1583
 Howie, T. O., 1587
 Hughes, R., 1465
 Hughes, T. M., 1546
 Hulay, J., 1346
 Hurley, L. S., 1425
 Hutt, V. H., 1539
- Imedadze, N. V., 1531
 Ingram, T. T. S., 1547, 1557, 1575
 Ireland, R. G., 1431
 Irwin, O. C., 1558, 1559
- Jeffress, L. A., 1362, 1367
 Jerger, J., 1443, 1444
- Karelitz, S., 1434
 Keene, M. F. L., 1496
 Kelly, J. L. Jr., 1361
 Kietz, H., 1336
 Kinder, E. F., 1573
 King, W. H., 1504
 Kinney, J. A., 1488
 Kjeldergaard, F. M., 1598
 Kley, W., 1352
 Klinghammer, H. D., 1477
 Klumpp, R. G., 1510
 Knetschke, E. von, 1519
 Kodman, F. Jr., 1445, 1500
 Komarova, E. N., 1414
 Konishi, T., 1435
 Koop, C. E., 1551
 Koppitz, E. M., 1532
 Korkis, F. B., 1398
 Kraus, R. N., 1399
- Lacina, O., 1589
 Ladefoged, P., 1587
 Lafon, J. C., 1520
 Lagunite, J. K., 1534
 Lamb, R., 1446
 Lane, H., 1488
 Lane, H. L., 1542
 Lang, C. M., 1483
 Leaning, P. A., 1560
 Lehist, L., 1521, 1522
 Lehtinen, L. E., 1561
 Lerca, L., 1369
 Levin, H., 1505
 Levine, E. S., 1466
 Lewis, R. S., 1561
 Lieberman, A. M., 1488
 Lieberman, P., 1489
 List, G., 1523
 Lochbaum, C., 1351
 Lockheed Missile Space Div., 1484
 Loeb, M., 1363
 Logan, W. P. D., 1436
 Loretz, W., 1565
 Lovas, O. I., 1599
 Lowell, E., 1397
 Lowell, E. L., 1370
 Loy, R. M., 1436
 Luchsinger, V. R., 1533, 1543
- Magarotto, C., 1478
 Manisk, J., 1400
 Manner, G., 1451
 Munson, M. M., 1436
 Manzila, I. N., 1415
 Mardia, V., 1532
 Marks, M., 1566
 Marquardt, W. F., 1552
 Martinoli, C. C., 1563
 Mayravin, A. M., 1452
 Mathews, M. V., 1490, 1491
 Matzker, J., 1426
 May, E., 1416
 McCue, D., 1447
 McDonnell, M., 1337
 McKenzie, R. E., 1371
 McLaurin, J. W., 1534
 Mendelson, E. S., 1363
 Menzel, O. J., 1448
 Miller, J. E., 1491
 Miller, M. H., 1583
 Mills, P. J., 1338
 Minarik, M., 1467
 Minifie, F. D., 1357
 Misrahy, G. A., 1339
 Muller, A. R., 1340
 Monasterio, I., 1468

AUTHOR INDEX

(Figures Refer to Abstract Numbers)

- Aborn, M., 1507
 Alajouanine, T., 1550
 Altmann, F., 1328
 Alvig, D. P., 1370
 Anderson, P., 1404
 Angelergues, R., 1556
 Anon., 1391, 1405
 Anson, B. J., 1334
 Ardissone, M. B. de, 1460
 Arnold, G. E., 1578
 Aron, M., 1592
 Asling, C. W., 1425
- Back, D. E., 1554
 Baldan, G., 1495
 Baldwin, A. L., 1505
 Ball, G., 1502
 Ballinger, R. M., 1370
 Barbara, D. A., 1591
 Barn, J., 1557
 Barney, H. L., 1579
 Basek, M., 1328
 Bauman, S., 1592
 Becker, W., 1426
 Békésy, G. V., 1329, 1330, 1593
 Beran, A. V., 1339
 Berlow, D. K., 1503
 Herruacos, M. P. V., 1449
 Bilgman, S. K., 1406
 Bilger, R. C., 1432
 Black, J. W., 1509
 Boardman, E., 1594
 Boenninghaus, H.-G., 1392
 Bonkowski, R. J., 1601
 Boomer, D. S., 1595
 Børild, K., 1388
 Bosma, J., 1514
 Botes, M. L., 1540
 Bower, D., 1407
 Boyd, J., 1393, 1394
 Brannon, W. R., 1408
 Bruce, D. J., 1525
 Bruno, G., 1584
 Bulgarelli, R., 1427
 Bunker, A. M., 1450
 Butler, R. A., 1435
- Carhart, R., 1443
 Carnell, C. M. Jr., 1596
 Carter, R. L., 1338
 Cary, F. H., 1428
 Casanovas, J., 1597
 Castaneda, A., 1526
 Castela Vaz, L. G., 1389
 Catania, A. C., 1542
 Cenacchi, V., 1429
 Cercello, P., 1585
 Chaiken, N., 1570
 Chase, R. A., 1499
 Chilaris, G., 1430
 Chladek, V., 1433
 Church, J., 1529
 Churlo, E., 1586
 Clemency, W. F., 1347
 Close, F., 1431
 Cohen, A., 1358
 Conner, L., 1420
 Connor, L. E., 1395
 Corso, J. F., 1359
 Costa, M. A. R., 1544
 Costello, M. R., 1390
 Coyell, W. P., 1432
 Coyne, A., 1430
 Crowl, L., 1563
 Crum, C., 1463
 Curry, E. T., 1580
- Darlington, C. D., 1515
 David, E. E., 1348, 1356, 1401
 Davidson, G. D., 1455
 Davis, H., 1432
 Deathridge, B. H., 1331
 Deme, L., 1516
 Denhoff, E., 1553
- Denny, J. V., 1570
 Derbyshire, A. J., 1338
 Dickson, C., 1363
 Dickson, E. D. D., 1442
 Dirks, D., 1443, 1444
 Dolson, C. C., 1482
 Doerfler, L. G., 1379
 Dohn, S., 1462
 Douglass, F. M., 1572
- Eagles, E. L., 1379
 Egan, J. P., 1360, 1361
 Eisenberg, M., 1434
 Eldredge, D. H., 1432
 Elliott, M., 1409
 Eriksen, C. W., 1528
 Ervin, S. M., 1527
- Fahel, L. S., 1526
 Falberg, R. M., 1473
 Faltýnek, L., 1396
 Fasano, V. A., 1585
 Fernandez, C., 1381, 1435
 Fillmore, C. J., 1513
 Fine, B. J., 1358
 Fink, S. L., 1545
 Fisch, L., 1554
 Fitch, N., 1564
 Foster, G., 1527
 Fourquet, J. von, 1517
 Fowler, E. P., 1572
 Francocci, G., 1463
 Franz, H., 1332
 French, J. R. W., 1410
 Fricker, H., 1380
 Friedlander, D., 1442
 Fry, W. J., 1349
 Fuhrer, M. J., 1528
 Furth, H. G., 1464
- Gabrielli, L., 1429
 Gales, R. S., 1512
 Gallagher, J. J., 1555
 Gallwey, M., 1505
 Gankova, Z. A., 1530
 Gant, J., 1411
 Gardner, W. H., 1581
 Garwood, V. P., 1339
 Gilliat, M. E., 1474
 Glorig, A., 1377, 1437, 1475
 Glovsky, L., 1458
 Goldberg, J. M., 1333
 Goldman-Eisler, F., 1518
 Goodale, W. D., 1347
 Goodrich, D. W., 1595
 Gorshina, E. P., 1412
 Greenberg, G. Z., 1360, 1361
 Greenwood, D. D., 1350
 Grings, W., 1397
 Gross, N. B., 1345
- Hall, J. F., 1365
 Hamlin, R. M., 1573
 Hanson, J. R., 1334
 Harris, H. E., 1581
 Harris, K. S., 1488
 Heenan, H., 1556
 Heinz, J. M., 1487
 Hellman, R. P., 1368
 Henderson, S. C., 1476
 Hines, R. C., 1413
 Hirsch, K., 1568
 Hirschfeld, S., 1574
 Hladký, R., 1335
 Hlaváček, V., 1433
 Honnard, R., 1397
 Horlick, R. S., 1583
 Howie, T. O., 1587
 Hughes, R., 1465
 Hughes, T. M., 1546
 Hulay, J., 1346
 Hurley, L. S., 1425
 Hutt, V. H., 1539
- Imedadze, N. V., 1531
 Ingram, T. T. S., 1547, 1557, 1575
 Ireland, R. G., 1431
 Irwin, O. C., 1558, 1559
- Jeffress, L. A., 1362, 1367
 Jerger, J., 1443, 1444
- Karelitz, S., 1434
 Keene, M. F. L., 1496
 Kelly, J. L. Jr., 1361
 Kietz, H., 1336
 Kinder, E. F., 1573
 King, W. H., 1504
 Kinney, J. A., 1488
 Kjeldergaard, F. M., 1598
 Kley, W., 1352
 Klinghammer, H. D., 1477
 Klumpp, R. G., 1510
 Knetschke, E. von, 1519
 Kodman, F. Jr., 1445, 1500
 Komarova, E. N., 1414
 Konishi, T., 1435
 Koop, C. E., 1551
 Koppitz, E. M., 1532
 Korkis, F. B., 1398
 Kraus, R. N., 1399
- Lacina, O., 1589
 Ladefoged, P., 1587
 Lafon, J. C., 1520
 Lagunite, J. K., 1534
 Lamb, R., 1446
 Lane, H., 1488
 Lane, H. L., 1542
 Lang, C. M., 1483
 Leaning, P. A., 1560
 Lehist, L., 1521, 1522
 Lehtinen, L. E., 1561
 Lerca, L., 1369
 Levin, H., 1505
 Levine, E. S., 1466
 Lewis, R. S., 1561
 Lieberman, A. M., 1488
 Lieberman, P., 1489
 List, G., 1523
 Lochbaum, C., 1351
 Lockheed Missle Space Div., 1484
 Loeb, M., 1363
 Logan, W. P. D., 1436
 Loretz, W., 1565
 Lovas, O. I., 1599
 Lowell, E., 1397
 Lowell, E. L., 1370
 Loy, R. M., 1436
 Luchsinger, V. R., 1533, 1543
- Magarotto, C., 1478
 Manisk, J., 1400
 Manner, G., 1451
 Munson, M. M., 1436
 Manzila, I. N., 1415
 Mardis, V., 1532
 Marks, M., 1566
 Marquardt, W. F., 1552
 Martinoli, C. C., 1563
 Mayrman, M. M., 1452
 Mathews, M. V., 1490, 1491
 Matzker, J., 1426
 May, E., 1416
 McCue, D., 1447
 McDonnell, M., 1337
 McKennie, R. E., 1371
 McLaurin, J. W., 1534
 Mendelson, E. S., 1353
 Menzel, O. J., 1448
 Miller, J. E., 1491
 Miller, M. H., 1583
 Mills, P. J., 1338
 Minarik, M., 1467
 Minifie, F. D., 1357
 Misrahy, G. A., 1339
 Muller, A. R., 1340
 Monasterio, I., 1468

- Moore, L. M., 1535
 Moschakis, E. A., 1551
 Mowrer, O. H., 1609
 Munkres, A., 1536
 Murphy, F. R., 1417, 1418, 1419, 1469
 Mussafia, M., 1569
 Naunton, R. F., 1381
 Neff, W. D., 1333
 Nelson, M., 1382
 Némec, J., 1470, 1588
 Nixon, J. C., 1437
 Novotný, Z., 1438, 1439
 O'Brien, C. C., 1364
 O'Connor, C., 1420
 Odom, R., 1526
 Ozles, C. M., 1576
 Olson, J. L., 1548
 Onchi, Y., 1341
 O'Neill, J. J., 1453
 Ostwald, P. F., 1492
 Ottoboni, A., 1586
 Owens, E., 1511
 Oyer, H. J., 1453
 Painter, A. L., 1421
 Paivio, A., 1505
 Perria, L., 1577
 Pestalozza, G., 1342
 Peterson, G. E., 1521, 1522
 Pfister, K., 1543
 Pimsleur, P., 1601
 Pirodda, E., 1342
 Portmann, C., 1384
 Portmann, M., 1384
 Pospisil, A., 1383, 1439
 Potter Langman, M., 1537
 Potter, S., 1506
 Prather, W. C., 1372
 Prunty, F., 1458
 Prysiazniuk, A., 1378
 Raab, D. H., 1354
 Raduker, L. D., 1538
 Rapin, I., 1499
 Reeds, J. A., 1524
 Refaaur, S., 1440
 Reinecken, R., 1352, 1355
 Reiss, S., 1602
 Rice, E. A., 1343
 Richards, L. F., 1565
 Rigrodsky, S., 1458
 Rosadini, G., 1577
 Rosal, G. F., 1577
 Rubella Group for Deaf/Blind Children, 1459
 Rubenstein, H., 1507
 Rubin, N., 1479
 Runquist, W. N., 1539
 Russell, D. H., 1540
 Russell, E. F., 1540
 Russell, E. M., 1562
 Ryan, G. M., 1572
 Sabouraud, O., 1550
 Sangvichien, S., 1497
 Sansom, W., 1378
 Scharf, B., 1373, 1374
 Schroeder, M. R., 1356
 Schulman, A. I., 1360, 1361
 Sellers, L. M., 1344
 Selters, W., 1377
 Shames, G. H., 1603
 Shinabarger, E. W., 1343
 Sierpinski, S., 1471
 Silverman, S. R., 1454
 Simkins, W. T., 1385
 Simonton, K. M., 1401
 Siroky, J., 1402
 Sivertsen, E., 1493
 Slivinske, A. J., 1365
 Small, A. M. Jr., 1345, 1357
 Smith, C., 1514
 Smith, K., 1570
 Snidecor, J. C., 1580
 Spradley, J. F., 1339
 Staats, A. W., 1501
 Stark, R. E., 1587
 Stein, S. F., 1476
 Steisel, I. M., 1570
 Stephens, T., 1532
 Stepien, L., 1471
 Stevens, K. N., 1487
 Stevens, S. S., 1542
 Stewart, D., 1480
 Strain, J. C., 1567
 Strauss, A. A., 1561
 Streng, A., 1422
 Šupáček, I., 1470, 1589
 Suter, C., 1582
 Sutton, S., 1499
 Tarasco, C. S., 1449
 Tatoul, C. M., 1455
 Taylor, R. W., 1362
 Tervort, B. Th., 1456
 Thompson, P. O., 1512
 Titova, M. F., 1457
 Tomits, G. H., 1346
 Torres Gasso, J. M.A., 1386
 Tüllman, A., 1423
 U.S. Nat'l Health Survey, 1403
 Venclik, H., 1441
 Vogel, W., 1375
 Vyssotsky, V. A., 1351
 Wang, W. S-Y., 1513, 1524
 Ward, W. D., 1376, 1377
 Watson, T. J., 1387
 Webster, J. C., 1366, 1510, 1512
 Weibis, V. H., 1590
 Weiland, I. H., 1570
 Welch, P. D., 1494
 Wertheim, N., 1549
 Westmoreland, W. W., 1565
 Whitworth, R. H., 1367
 Williams, B. R., 1485, 1486
 Williams, C. T., 1370
 Williams, W. G., 1541
 Willingham, B., 1424
 Wimpres, R. S., 1494
 Wood, N. E., 1571
 Wood, P. J., 1498
 Wooten, E., 1425
 Wright, R. D., 1481
 Youngerman, H. C., 1604
 Zajonc, R. B., 1508
 Zubek, J. P., 1378
 Zwislöcki, J., 1368

SUBJECT INDEX

Volume I

(Numbers after each entry refer to numbers of the abstracts)

- Acoustic nerve (See *Nerve VIII.*)
- Acoustic neuroma (See *Nerve VIII.*)
- Acoustics 1348
- absorption, measure of 1072
- archives for 1523
- critical band, review 1374
- by fish 670
- inversion 453
- pulse duration & loudness 34
- abnormal ear 35
- & SPL 42
- ultrasound 1349
- Acoustic trauma 70, 1426, 1437
- biochemistry of 1172
- & cochlear damage 1432
- & middle ear muscles 1063
- military fitness 84
- postoperative 136, 475
- textile industry 801
- (See also *Fatigue; Hearing conservation; Noise.*)
- Adaptation (See *Fatigue.*)
- Adenoids 893
- hearing after removal 134
- Agnosia, prosopagnosia 950
- (See also *Aphasia.*)
- Amer. Speech Hearing Ass'n 1326
- presidential address 1300
- proposed goals 325
- & relations with medics 1033
- (See also *Audiologist; Speech pathologist.*)
- Anacusis (See *Deafness.*)
- Aphasia 1252, 1253, 1255
- amusia, case 1549
- & anxiety 234
- audiometric types 1162
- auditory training 237
- Baillarger-Jackson 1249
- in bilinguals 604
- & blindness 228
- & brain lesions 956
- case 947
- congenital 226, 229, 605, 948
- & deafness 1168, 1544
- delayed reading 598
- developmental 952
- diagnosis 958, 1005
- vs. deafness 1548
- & therapy 233
- vs. dyslexia & dysgraphia 1254, 1547
- etiology 601
- Gerstmann syndrome 1251
- grammar 603
- history 945
- incidence, Mexico 227
- Jackson, Hughlings 599, 1249
- learning problems 606
- & MMPI 600
- in multilinguals 607
- prognosis & EEG 235
- recovery process 602
- review 231, 238
- text 953, 1000, 1250
- therapy 236, 1545, 1546
- child 944
- goals 232
- Italy 957
- & time sequence 597
- vestibular function 1125
- visual memory in 230
- & word frequency 1256
- (See also *Communication; Language; Speech; Tests.*)
- Apraxia, constructional 954
- (See also *Aphasia.*)
- Articulation
- & auditory perception 243
- pitch 1259
- in cerebral palsy 253
- classification 608
- cleft palate 257, 262, 628, 987
- test 1270
- correction of 241, 242
- of deaf 961
- dental arches 245
- dentures 246
- digit-symbol substitution 248
- disorders, review of 244
- & maternal attitude 1257
- & maternal training 1258
- text 1019
- & facial structure 886
- intelligibility 962
- maturation 207
- measure 240, 247
- nasal syllables 575
- open bite & tongue thrusting 959
- & parental occupation 249
- & pitch discrimination 1259
- & reading readiness 215
- of syllables 917
- voiceless plosives 561
- (See also *Phonetics; Speech; Voice.*)
- Audiologists
- accreditation, public school 1308
- certification 1300
- New York 1604
- need for 324, 1306
- & neurological deficit 1322
- philosophy for 1311
- professional status 1035, 1036, 1038
- responsibilities of 1299, 1319
- training 1301, 1310
- (See also *Amer. Speech Hearing Ass'n.*)
- Audiology 1121
- clinic design 1321
- Europe 1039
- (See also *Deafness; Hearing; Tests.*)
- Audiometer (See *Equipment.*)
- Audiometry (See *Tests, auditory.*)
- Audition (See *Hearing.*)
- Auditory cues (See *Hearing.*)
- Auditory development (See *Hearing.*)
- Auditory training 1390
- aphasics 237
- deaf 1103, 1104, 1136
- Denmark 116
- for hearing aids 74, 158
- Norway 1388
- telephone, in use of 745
- text 1540
- (See also *Education; Equipment; Hearing Aids; Speech Therapy.*)
- Auditory vigilance (See *Hearing.*)
- Autism, infantile (See *Speech, delayed.*)
- Avitaminosis (See *Vitamins.*)
- Bell, A. G., autobiography 323
- Bilingualism (See *Language.*)
- Binaural balancing (See *Hearing; Tests, auditory.*)
- Bone conduction
- vs. air, own voice 1212
- & deafness 342
- & lesions of outer & middle ear 1381

- reliability 1095
test calibration 1096
threshold 376
(See also *Hearing; Tests, auditory.*)
- Cerebral palsy
articulation 1559
test 1558
case finding 619
cerebellar anomalies 251
classification 1266
counseling, adults 615
communication, aphonic, text 1263
& deafness 172
diplegia & birth weight 1267
incidence, Denmark 963
Manitoba 254
Minnesota 1269
twins 965, 1562
& kernicterus, text 1260
language problems 268, 280
medical aspects 617
nursery school for 964
& perception, text 1261
personality of mothers 250
school for 966
seizures in school 1262
tests, auditory 321, 1554
consonant blends 610, 611, 612, 613
intelligence 609
language development 616
perceptual-motor 315, 1261
text 1268
therapy 1553
drug 618
speech 967
surgical 614
text 1555, 1560, 1561
(See also *Tests.*)
- Children's Bureau
support of speech & hearing 1031
- Cleft lip
& auditory defect 1272
classification 274, 623
etiology 977, 981
incidence 1565
proposal, international study 622
prosthodontics 968
surgery 275
results 621
time for 979
text 1271
in twins 624
unilateral 266
(See also *Cleft palate; Dentofacial anomalies.*)
- Cleft palate
articulation 257, 628
test 1270
& auditory defects 978, 1272
cephalometrics 256, 273, 632, 989
classification 274, 623
dentist's role 631, 968, 993
England 986
etiology 974, 977, 981, 1567
genetics 1564
incidence 1565
laymen's attitudes 259
nasality, intelligibility & articulation 991
orthodontia 636
parent, personalities 260, 261
attitudes 970
Pierre Robin syndrome 897
prognosis 258
proposal, international study 622
prosthetics 625, 635, 639, 969, 984, 985, 992, 994, 1567
radiography 627
relation to F.N.T. 270
& resonating cavities 629
schools, urban 1040
& speech pathologist 638
speech therapy 272, 620
surgical procedures 271, 634, 637, 972, 988, 1563
pharyngeal flap 971, 975, 976, 980, 990, 995
post 269, 626
results 262, 263, 621
time for 979
team approach, history of 265
S. Africa 1566
text 1271
in twins 624
unreconstructed 255, 264, 267
(See also *Cleft lip; Dentofacial anomalies.*)
- Cochlea
& acoustic trauma 1432
adaptation 348
& anesthesia 1059
anoxia, effects of 1435
basilar membrane 8, 698
Békésy's eddies 16
capillary permeability 1057
& chlorpromazine 1062
electrophysiology 343
endolymph dc potential 1343
histochemistry 1052
innervation 338
irradiation effects 1164
& masking 364
microphonics 342
& difference tone 2
& drugs 706
insulin 1051
& scali tympani & vestibuli 10
model 346
dimensional analysis 16
Fourier analysis 1330
hydraulic 32
response to noise 733
Organ of Corti & noise 810
& polio 1163
potentials, bat 1068
Reissner's, artificial 15
scala media, motion of 15
& starvation 4
tectorial membrane 8, 341
temperature, effects of 1044, 1045
(See also *Ear, middle.*)
- Collumellization (See *Ossicles.*)
- Communication
aphonic, text 1263
& cognitive similarity 908
& data source 1238
disorders 925
children 680
diagnosis of 1280
geriatric 679
hospital for 1312
incidence 1576
parent attitudes to 1028
text 1572
electrocortaneous 1078
& irrelevant information 1225
& memory 1217
message set & accuracy 913
multidimensional 1367
unknown 37
& word frequency 905
& neural defects 898
nonverbal 1502
by orthoptera 877
in psychiatric interview 906
research, review 1220
tactful 677
text 1503
transmitters vs. receivers 1508
& verbal expression 941
(See also *Cybernetics; Language; Psycho-acoustics; Speech; Word.*)
- Communication, manual
American Indian signs 170
aviation 684
& cognitive processes 1203, 1205, 1206
& education 171
fingerspelling
intelligibility 685
& distance 1193
Russia 426, 781
in industry 1484
mouth-hand system 1404

- origin 168
 preference for, deaf 834
 sign language structure 506
 for slow learners 441
 text 507
 (See also *Education*;
Language.)
- Conditioning
 eyeblink 21
 Padiacometer 52
 reliability in deaf preschool
 51
 verbal operant
 awareness 1219
 examiner influence 1221
 generalization 331
 & Hullian Theory 1501
 of middle ear muscles 347
 in psychotics 322
 of stutterers 651
 (See also *Reflex*; *Tests*,
auditory.)
- Consonants (See *Phonetics*.)
- Corpectomy (See *Laryngeal*
surgery.)
- Cortex, auditory 1346
 ablation & frequency
 discrimination 1333
 bibliography 1323
 of deaf 828
 & frequency discrimination
 349
 & memory 1471
 review 344
 & thresholds 377
 tumors & hallucinations 807
- Cortex, cerebral & hearing 1061
 EEG amplitude & sound
 stimuli 1338
 rise time 1345
 & hallucinations 807
 theory, Alford vs. Monakow
 890
- Cybernetics
 & behavior study 553
 & language theory 552
 (See also *Language*; *Theory*.)
- Deaf, organizations of and for,
 1474
 A. G. Bell Ass'n 787
 Boston, parents of 1037
 England 1149
 Japan 1317
 parent 1324
 Wichita 1473
 World Federation 1478
 Third Congress 179
- Deafness 875
 adjustment, child 513
 & adolescence 1208
 anesthetics, local 808
 & aphasia 1168, 1544, 1548
 & atherosclerosis 447
 attitudes of professionals 857
 auditory fatigue 448
 & blindness 175, 845, 846, 849,
 850, 1459
 bone conduction 342
 & brain damage 847, 851, 1129
 & cerebral palsy 172, 511
 & child rearing 1277
 Cogan's syndrome 449
 cognitive ability 177, 178
 & manual communication
 1203, 1205, 1206
 color-form attitude 515
 communication modes 834
 congenital 816
 counseling 870, 872
 administration 873
 Center 860
 creativity 514
 crenotherapy 1109, 1111
 definition 175
 doll play 522
 & dreams 1205
 EEG study 828
 electrocutaneous perception
 502
 & employment 181, 531, 869
 S. Africa 527, 528
 & equilibrium 328
 etiology 981
 unilateral 1167
 Heerfordt's disease 450
 hereditary 802, 1165, 1187
 & goitre 805
 Switzerland 139
 Waardenburg syndrome
 802, 1187
 incidence 675, 682, 1403
 Germany 174, 178
 insurance, auto 1479
 intelligence 1468
 test of 1207
 labyrinthine 150, 456, 760
 language development 586,
 859
 Lobstein's disease 485
 & mental retardation 510, 1458
 vs. mental retardation, parent
 groups 1324
 mumps 451, 1173
 noise threshold 372
 vs. normal hearing 1461, 1463
 memory 1464
 verbal ability 1465
 & other defects 509
 Paget's disease 485, 752
 & polio 848
 psychology of 520, 1460, 1462,
 1467
 tests 176, 856, 1469
 text 858, 1466
 rehabilitation 1486
 religion, workshop 1476
 research, facilities 529
 problems 530
 & residual hearing 1196
 & retinitis pigmentosa 1177
 reversible, case 809
 & rhythm 1389
 & rubella 1175
 in pregnancy 1436
 & schizophrenia 174
 social, adequacy index 868
 problems 864, 1208
 speechreading 839, 853
 stapedial fixation 1174
 sudden 443, 821, 822, 1429
 text 1309
 therapy 765
 vitamin B₁₂ 750
 tinnitus 755
 tubal
 radiotherapy 757
 & vascular insufficiency 411
 vestibular function 1125
 Waardenburg syndrome 802,
 1187
 (See also *Auditory training*;
Communication; *Ear*;
Education; *Language*;
Speech; *Tests*.)
- Dentofacial anomalies
 & hypervitaminosis 973
 malocclusion, & fluoridation
 678
 incidence, American Negro
 666
 longitudinal study 668
 & skeletal age 691
 mandibular prosthesis 673
 (See also *Cleft lip*; *Cleft*
palate.)
- Dialect (See *Speech*.)
- Difference tone (See *Cochlea*.)
- Dihydrostreptomycin (See
Drugs, streptomycin.)
- Discrimination, auditory (See
Hearing.)
- Drugs
 anesthetics & hearing 1337
 local 808
 antibiotics, side effects 132
 therapy for hearing loss 486
 chlorpromazine & audition
 1062
 Hydergin & vertigo 1108
 insulin & inner ear 1051
 isoniazid, effects on speech
 329
 Kanamycin, ototoxicity of
 1186
 meprobamate & auditory
 vigilance 1042

- neomycin and deafness 466, 706
- procaine hydrochloride & cochlea 1059
- prochlorpromazine & auditory threshold 696
- sodium amytal & speech dominance 192
- streptomycin & hearing loss 60, 61, 399, 706, 1176 & hearing restoration 28 review 1427
- sulfonamides in otitis 154, 157
- tranquilizers & stuttering 291
- Dysacusis (See *Deafness; Hearing loss; Presbycusis.*)
- Dyslexia (See *Aphasia.*)
- Dysgraphia (See *Aphasia.*)
- Dysphasia (See *Aphasia; Language, disorders; Speech pathology.*)
- Dysphonia (See *Voice.*)
- Ear, external
- cancer & snuff 143
 - congenital anomalies 148, 446
 - meatal atresia 823
- Ear, inner
- congenital anomalies 148
 - effects of noise 803
 - embryology 14
 - endolymph 701
 - histochemistry 825
 - histology, irradiation 340
 - mumps 1173
 - labyrinth, damage 1 & manganese deficiency 1425
 - pressure in 406
 - perilymph 1315
 - regulatory characteristics 699
 - & skull injury 746
 - sound analysis 17, 18
 - trauma, text 1182
 - waves in, lateral vs. surging 7 (See also *Cochlea; Vestibular function.*)
- Ear, middle 1341
- amplitude ratio of parts 703
 - carcinoma temporal bone 799
 - conductive mechanism 458, 461, 702
 - congenital anomalies 148, 149
 - drum, care 455
 - impedance 1064
 - newborn 1053
 - tension & hearing 345
 - eosinophilic granuloma, case 462
 - impedance, measure of 36
 - innervation 1041
 - micro-hemocirculation 700
 - model 1340
 - muscles
 - acoustic trauma 1063
 - conditioning of 347
 - & loudness 1060
 - reticular stimulation 6
 - round window 1344
 - stapedius 1332
 - surgery, review 1122
 - contralateral effects of 1128
 - surgical substitution 9 (See also *Fenestration; Mastoidectomy; Ossicles; Otitis media; Reflex; Tympanoplasty.*)
- Ear protector (See *Hearing conservation.*)
- Education, deaf & hard of
- hearing 416, 422, 423, 427
 - accreditation 1308
 - administration 1137, 1146
 - day classes 113, 424
 - arithmetic 500, 1413
 - art 778, 855
 - audiological variations 375 & socioeconomic status 525
 - Australia 793
 - bibliography 424, 766
 - comics 164
 - concept formation 1148
 - counseling & guidance 519, 870, 872
 - administration 873
 - Center, Gallaudet 860
 - curriculum 1133, 1144
 - dancing 1145
 - Denmark 124
 - dictionary 1156
 - electrocutaneous perception 502
 - England 117, 122, 428, 433
 - adult 777, 837, 1410
 - conference 783
 - peripatetic units 792
 - psychologic factors 1203
 - secondary 436, 1154
 - technical 440
 - Europe 440
 - extracurricular 526, 865
 - reading 769
 - fingerspelling 171, 426, 781
 - France 333
 - vocational 180
 - Germany 1159
 - higher 1423
 - vocational 1210
 - grammar 166, 167
 - Greece 432
 - Hawaii 420
 - hearing aids 488, 492, 743
 - loop system 708, 744
 - & speech correction 1103
 - higher 1406
 - history 1152
 - text 1131
 - integration with hearing 126, 521, 523, 767, 786, 874, 1150, 1151, 1209
 - results of 1420
 - Italy 118
 - Japan 794, 1161
 - language 1132, 1190, 1456, 1535
 - foreign, college level 1408
 - manual for 842
 - review 1195
 - literateness 790
 - methods
 - aural-oral 125
 - combined 417
 - oral 112, 118
 - vs. manual 115, 162
 - simultaneous 772
 - Mexico 1449
 - music 1416
 - Netherlands 125
 - New Mexico 770
 - Norway 430
 - history text 1404
 - perception, syncretic 499
 - phonetics, experimental 498
 - physical 412, 418, 421, 425
 - preschool 121, 426, 438, 501
 - experiment 1160
 - principles 123
 - sociometry 522
 - speech 1192
 - profound vs. partial loss 429
 - psychological basis 175
 - social 523
 - reasoning, development of 1155
 - residential 524
 - social 524
 - rhythm 403
 - Russia 335, 415, 437, 1153
 - agricultural 871
 - art 778
 - auditory training 1104
 - conference report 1415
 - fingerspelling 781, 1139
 - & speech 1197
 - language 163, 1191, 1412, 1414
 - preschool 426, 438, 501
 - creative games 781
 - methods 840
 - speech 781, 1140
 - & residual hearing 1452
 - typewriting 781
 - research 1130
 - speech correction 439, 1103
 - science 768, 1157, 1418
 - secondary 431, 436

- seatwork 435
 sex 1419
 short term 1105
 slow learners 441
 social needs 865
 social studies 1411, 1421, 1424
 Switzerland 334
 teaching machines 165
 vocabulary 1135
 teacher
 academic, need for 776
 certification, Eng. 780, 782
 need for 1306
 recruitment of 789
 as researcher 512
 role in mental health 1201
 training 771, 785
 Germany 1143
 Great Britain 1409
 telephone 745
 television 413, 1417
 text 1147, 1422
 urban facilities 434, 1040
 visual aids 414
 vocabulary 497, 1135, 1189
 vocational 1485
 female 1483
 printing 1482
 voice training 169
 (See also *Auditory training; Communication; Deafness; Hearing; Language; Speech; Speechreading; Tests.*)
 Education, parent 320
 of cleft palate
 attitudes 970
 of communication disorders
 attitudes 1028
 of deaf 121, 687, 773, 775, 854, 861, 863, 1407
 attitudes 1138
 Boston 1037
 language arts 843
 pictures, use of 774
 reading 784, 795
 speech 841
 speechreading 779, 1451
 text 1134
 of hard of hearing 332, 1158, 1196
 Boston 1037
 Germany 1142
 text 1405
 text 1304
 Education, reading
 deaf child 791, 1190
 delayed 598
 & handedness 1239
 mental retardates 1538
 text 1273
 phonics 214
 readiness & articulation 215
 tests of 1532
 recognition time 1215
 & speech 1537
 (See also *Tests.*)
 Education, speech 833, 1454
 deaf child 404, 439, 835
 articulation 961
 motivation 788
 preschool 1192
 psychological view 838
 English for foreigners 1552
 extracurricular 865
 France 333
 & handedness 1239
 linguistic knowledge 202
 & mathematical 907
 motivation 588
 oral approach to foreigners 587
 & residual hearing 1196, 1452
 review 505
 & rhythm, deaf 403
 Russia
 & fingerspelling 1197, 1457
 preschool 781, 1140
 structural linguistics 1244
 Switzerland 334
 text 1536
 (See also *Communication; Language; Speech; Tests.*)
 Electrodermal response (See *Tests, auditory, GSR.*)
 Electrophonic effect (See *Hearing.*)
 Equipment
 acoustic 1348
 aerometer, electro 942
 nasal & oral 983
 AM data system 1070
 amplifiers 1071
 loop 708
 announcements, recorded 903
 audiometer, standardization 43
 evaluation 734
 Pediocoumeter 52
 bridge, electroacoustic
 measuring 715
 computers 187, 725, 883, 1070, 1351
 earphone 350
 flutter meter 878
 frequency-synthesizing
 system design 1075
 glottograph 218
 guide-langue 242
 Helmholtz 356
 laryngoscope, photo 190
 larynx, artificial 286, 1007
 mastoid, artificial 717
 microphones, compared 532
 voice-switched 899, 1347
 modulation & detection 1074
 multiple pass band 712
 noise-measuring set 880, 881
 phase shifter 1073
 photoelectronystagmography 716
 photolaryngoscope 190, 1283
 pitch indicator 496
 pressure-log chart 71
 resonators 720
 Sonograph 1520
 & singing 910
 sound archives 1523
 sound pressure equalizer 1087
 speech communication 1004
 Articulation Index of 912
 computer 1490, 1491
 identification 883
 program, BLODI 1351
 recognition & synthesis 187
 simulation 187, 725, 1070
 & vowel recognition 1494
 helmet gear & 909
 Pattern Playback 1488
 recording 574
 selective amplitude
 sampling 914
 telephone, network capacity 1211
 test panel, hearing aid repair 1446
 transducers, electroacoustic 709
 for tympanic reflex 1353
 vocagrams 885
 vocal cord research apparatus 223
 voice trainer, Plant-Mandy 169
 vocoder 1356
 Esophageal speech (See *Larynx; Speech.*)
 Eustachian tube
 abnormally open 820
 review 11
 role in hearing loss 1181
 Exceptional child (See *Handicapped person.*)
 Fatigue auditory 40, 1377
 vs. adaptation 1342
 & anesthetics 1337
 & cochlear potentials 339, 348
 & frequencies, low 38
 individual differences 1080
 measurement 384
 Kietz test 57
 noise audiometry 47
 residue 44
 & noise level, changing 41

- interaction 1376
 - low 39
- normal & pathological 29
- & personality 1101
- perstimulatory 742
- & physical exercise 67
- review 448
- threshold 369
- Feedback
 - auditory vs. visual 1216
 - delayed
 - vs. binaural 902
 - & instructions 901
 - monaural 551
 - & phrase structure 550
 - & reading rate 1500
 - & stuttering 1012
 - & voluntary movement 1499
 - & stuttering 655, 900
- Fenestration
 - results 761, 406, 444
 - sound inversion 453
 - techniques 78, 103, 459
 - & vestibular function 410
 - (See also *Ear; Ossicles, otitis; Tympanoplasty.*)
- Fingerspelling (See *Communication, manual.*)
- Formants (See *Speech, acoustics.*)
- Fricatives (See *Speech, acoustics.*)
- Gestures (See *Communication, manual.*)
- Grammar (See *Language.*)
- Habituation (See *Fatigue, auditory.*)
- Handicapped person
 - acceptance of 1313
 - attitudes toward 1318
 - directory of interested groups 1325
 - teachers of 693
 - text 676, 1327
- Harelip (See *Cleft lip.*)
- Hearing
 - amphibians 12
 - auditory cues in visual search 721
 - autophonic scale 1542
 - balancing, binaural 54
 - binaural interaction 1331
 - of brief tones 1336
 - cerebellar pathways 1339
 - critical band, review 1374
 - discrimination, of blind 352
 - & brain stimulation 354
 - definition 20
 - of duration 1078
 - innate vs. acquired 1488
 - of intensity 1058
 - of pitch 360, 726, 727, 730, 732
 - & sleep deprivation 1358
 - & stimulus generalization 1365
 - electrophonic effect 30
 - & complex wave 58
 - facilitation 395
 - institutionalization & development 697
 - localization 1362
 - by bats 704
 - developmental 353
 - & diagnosis of brain damage 96
 - vs. different modalities 1077
 - in disturbed children 351
 - in infants 724
 - in monaurally impaired 1076
 - phase & intensity 33
 - time vs. intensity 362, 1367
 - in white noise 879
 - memory & brain damage 1471
 - for tones 1364
 - vs. vision 1504, 1601
 - phase effects, monaural 356
 - in reptiles 12, 694
 - signal detection, in Gaussian noise 1081
 - theory 370
 - time interval uncertainty 1360
 - & waveform memory 1361
 - uncertain frequency 357
 - of waveform 710
 - & subcortical stimulation 1056
 - surgery, necessity to research 1593
 - synesthesia 1597
 - vowel recognition 1494
 - vigilance & meprobamate 1042
 - (See also *Auditory training; Bone conduction; Cochlea; Cortex; Drugs; Ear; Equipment; Fatigue; Psycho-acoustics; Recruitment; Tests; Threshold.*)
- Hearing aids 127, 831
 - & audiometer combined 1087
 - binaural 830, 1188, 1444, 1447
 - adults 489
 - children 159, 832
 - monaural loss 490
 - & speech intelligibility 1443
- deaf children 404, 492, 743
- dealer examination, Oregon 1022
- evaluation 161, 829
- England 117
- fitting 1448
- industry objectives 1029
- for monaural loss 1442
- on playground 488
- psychological factors 495
- quality of 493
- & recruitment 160
- training for use of 74, 158
- users, dissatisfied 1445
- (See also *Equipment; Tests, auditory.*)
- Hearing conservation 318, 355
- ear protector 1069
 - measure of attenuation 19
 - value to mental work 718
- England 1472
- industrial 48, 1171, 1475
- Iowa 1141
- Kentucky 740
- mental retardates 405
- (See also *Equipment; Noise; Tests, auditory.*)
- Hearing loss 1481
 - adenoids 134, 893
 - antibiotic therapy 486
 - & brain damage 93, 95, 851
 - temporal lobe 465
 - subtle 1264
 - brucellosis 481
 - & carbon monoxide 826
 - & cervical syndrome 104
 - congenital 445
 - counseling 870
 - etiology 79
 - family physician's role 1123
 - following trachotomy 108
 - & glaucoma 129
 - & head injury 56, 77, 142, 396, 407
 - hereditary 484, 802
 - & polyneuritis 1440
 - incidence 318, 675, 683, 1316, 1403
 - Jerusalem 45
 - review 1395
 - & infantile anoxia 999
 - & irradiation 1055
 - & loss of pigmentation 707
 - measles encephalitis 1434
 - in mental retardates 405
 - mumps 101, 451
 - & neurological disorders 1199
 - nonorganic 1201
 - case 1200
 - detection of 21, 97
 - in children 374, 518
 - & noise, physiology 810, 814, 1185
 - gun fire 812
 - jet 64, 401, 1065
 - steel mill 55

- & vibration 59
- & personality 1204
- vs. stutterers 1583
- paracusis Willisiana 373
- Pierre Robin's syndrome 897
- Research
 - Russia 824
 - review 1178
 - Rh negative 1179
 - rubella 1183
 - semiotics 1391
 - social adequacy index 868
 - social group work with 862
 - in telephone workers 402
 - & temperature 1044, 1045
 - text 1309, 1591
 - therapy, antibiotic 486
 - vasodilator 477
 - & thyroid function 473, 482
 - under compression 65
 - unilateral, transitory 155
 - & localization 1076
 - etiology 1167
 - variations in deaf child 375
 - & vestibular function 129
 - & weather conditions 894
 - (See also *Presbycusis*;
 - Recruitment*; *Tests*,
 - auditory*.)
- Hypacusia (See *Hearing loss*.)
- Industrial noises (See *Noise*.)
- Interposition (See *Ossicles*.)
- Intonation (See *Voice*.)
- Labyrinth (See *Ear, inner*;
- Vestibular function*.)
- Language
 - acquisition methods 1242
 - afferent & efferent function 1025
 - animal vs. human 568
 - associationism 1234
 - basic Romani 923
 - bibliography 689
 - research 1320
 - bilingualism & development 584
 - & intelligence 932, 933
 - & memory 1230
 - comprehension & sentence length 585
 - cybernetics 552
 - disorders 936
 - & brain damage 1264
 - subtle 1265
 - in children 239
 - hereditary 686
 - vs. speech 640
 - (See also *Aphasia*; *Speech disorders*.)
 - dyslexia, review 1002
 - English, analysis of 842
 - foreign & inner speech 935
 - & mathematics 907
 - heredity 308, 1515
 - mediating properties 1231
 - & personality 844
 - phonics in reading 214
 - psycholinguistics 1507, 1598, 1600, 1602
 - & reality 924
 - of signs 506, 507
 - text 1503, 1506, 1529
 - typology 571
 - Whorf's Theory 836
 - (See also *Communication*;
 - Cybernetics*; *Education*;
 - Speech*; *Tests*; *Word*.)
- Language, development 936
 - bilingualism 584, 1531
 - of deaf child 1456
 - grammar 938
 - & institutionalization 589
 - of mental retardates 590, 1241
 - Russia 937
 - of precision 1240
 - psycholinguistic theory 1243
 - of second language 588
 - & socioeconomic status 586
 - of structure 1238
 - text 1529
 - & thought 1530
 - of vocabulary 582
- Larynx 892
 - artificial 286, 1007, 1578, 1579
 - bibliography 1288
 - carcinoma of 1010
 - contact ulcer of 305
 - therapy 1297
 - cricothyroid dislocation 660
 - dysphonia, ventricular 1295
 - function of 225
 - & goitre 312
 - & hypopharynx 283
 - laryngeal nerve paresis 310
 - laryngologist vs. phoniatrist 1010
 - muscles of 193, 217, 222, 535
 - cricopharyngeous 288
 - innervation 888
 - methods of study 1245
 - neuromuscular spindles 1496
 - & vocal cord tension 895
 - weight 887
 - photo-laryngoscope 190
 - high speed 1283
 - size of & vocal pitch 219
 - speech vs. singing 540
 - stridor, congenital 1298
 - stroboscopic examination 657
 - of professional speakers 216
 - tongue-hyoid relation 546
 - vibrations, measure of 885
 - vocal cords 223, 306, 538, 547
- EMG 1246
 - false 545
 - length & pitch 220, 221
 - lesions 665
 - mucosa 661
 - nodules 658, 659
 - paralysis 534, 537
 - reflex 549
 - vibrations & sound wave 1247
- Larynx, surgery of & bronchi 1284
 - cordectomy
 - for paresis 307
 - ventricular phonation 896
 - voice after 284, 285
- EMG, postsurgery 641
- esophageal sphincter 1214
- partial 1008, 1582
- postoperative care 1287, 1289, 1581
- prosthesis 645
- somatic problems 642, 643
- speech
 - esophageal 289, 1009
 - norms 287
 - text 1286
 - training 644, 646
 - stenosis, correction of 663
 - vibrator, oral 647
 - voice, esophageal 1006
 - review 1285
 - (See also *Speech*; *Tests*.)
- Legal issues
 - deaf
 - Denmark 116
 - Germany 1477
 - insurance, auto 1479
 - hard of hearing
 - Denmark 116
 - noise, workmen's
 - compensation 1475
- Linguistics (See *Language*.)
- Lipreading (See *Speechreading*.)
- Localization, auditory (See *Hearing*.)
- Logopedics (See *Speech pathology*; *Speech therapy*.)
- Malingering (See *Hearing loss, nonorganic*;
- Tests, auditory*,
- malingering*.)
- Malocclusion (See *Dentofacial anomalies*.)
- Masking
 - binaural 358
 - in bone conduction audiometry 383
 - clinical problems in 1102
 - & cochlea 364

- & critical band 1350
- equalization vs.
 - cancellation 358
- forward & backward 1354
- & loudness summation 1373
- monaural temporal, binaural
 - interaction 729
- normal vs. hearing
 - impaired 27
- (See also *Tests, auditory.*)
- Mastoidectomy
 - antromastoidectomy 460
- case 1110
- in chronic otitis media 133
- complications, postsurgical
 - 128
- modified 151
- results 758, 1401
- (See also *Ear, middle; Otitis.*)
- Mastoiditis, treatment 151
- (See also *Otitis.*)
- Medication (See *Drugs.*)
- Ménière's disease 806, 1106, 1399
 - allergic pathogenesis 1166
 - & Békésy audiometry 753
 - & diencephalic regulation 144
- etiology 819
- therapy 765
 - surgical 80, 764
 - ultrasonic 1107
- vestibular tests 798
- (See also *Hearing loss; Tinnitus; Vestibular functioning.*)
- Meningitis, T.B., treatment 135
- Message set (See *Communication.*)
- Multiple handicaps (See *separate handicaps.*)
- Music, cerebral localization 226
 - computer generated 1490
 - & deaf child 1416
 - & speech therapy 1594
- Mutism (See *Speech, delayed.*)
- Nat'l. Inst. Neurol. Dis & Blindness 327, 690
- Nerve VIII
 - & chlorpromazine 1062
 - & dysostosis multiplex 800
- neurovascular disorders 817
- tumors 131
 - case 409
 - diagnosis of 88
- (See also *Vestibular function.*)
- Noise 355
 - attenuation, bat 1067
 - auditory perception in 722
 - burst-noise channel 884
 - cocktail parties 31, 879
 - cochlear potential 339, 348
 - constant ratio rule 198
 - & continuous audiometry 69
 - criteria for exposure 866
 - Gaussian & signal detection 1081
 - & hearing loss 810, 1185
 - industrial 672, 1475, 1480
 - & impedance 814
 - spectral analysis 827
 - steel mills 55
 - interaural correlation 368
 - intensity judgments of 1082
 - jet engine 401
 - & blood tests 1047
 - & hearing loss 1065
 - vs. prop 719
 - & vestibular function 1066
 - measuring set 880, 881
 - message circuit 876
 - & otosclerosis 1439
 - permanent effects 803, 1437
 - & pure tones 44
 - loudness shift 1372
 - as stimulus 667
 - signal, detection in 26
 - & speech 188
 - intelligibility 194, 198, 1223
 - thresholds, deaf vs. normal 372
 - random vs. pure tone 1079
 - trauma, acoustic 70
 - micro 49
 - & vibration 59
 - (See *Acoustic trauma; Hearing conservation; Masking.*)
- Nystagmus (See *Vestibular function.*)
- Organ of Corti (See *Cochlea; Ear, inner.*)
- Ossicles
 - congenital malformation 148, 149
 - footplate 457
 - fracture after head injury 1180
 - histopathology 1174
 - Lobstein & Paget disease 485, 752
 - malformation & deafness 100
 - malleus, development of 1334
 - microscopic structure 1048, 1328
 - in otitis 813
 - stapes fixation & transmission 1396
 - stapes surgery 106, 747, 765
 - & age 87
 - cochlear damage, delayed 1169
 - collumelization 86
 - direct mobilization 1441
 - interposition 140, 474
 - myringostapedopexy 89
 - partial 1115
 - replacement 1050
 - results 91, 111, 470, 751 1126
 - review 749
 - technique 85, 759, 1117, 1127
 - transplant 1043
 - & vertigo 1184
 - Zangemeister 1392
 - (See also *Ear, middle.*)
- Otitis, incidence 452
- Otitis media 1170
 - caloric tests 107
 - in children 94, 483
 - & cleft lip/palate 1272
 - etiology 797, 813
 - relapse, prevention 130
 - research, Russia 824
 - therapy 765
 - antibiotic 145
 - benzol 811
 - surgical 81, 133, 815
 - X-ray 748
- & sulfonamide therapy 154, 157
- vascular complications 464
- & vestibular function 152
- (See also *Ear, middle; Fenestration; Tympanoplasty.*)
- Otology 1046
 - & laryngology
 - ASHA relations 1033
 - Russia vs. U.S. 1027
- Otosclerosis 82, 457
 - & age 379, 468
 - in animals 146
 - audiological problems 1383
 - diagnosis 99
 - auditory catheter 1402
 - & fenestra rotunda 406
 - heredity 1433
 - incidence, Czechoslovakia 1400
 - & nerve deterioration 804
 - neurovegetative regulation 1438
 - & noise 1439
 - perilymph analysis 487
 - pseudo 454
 - Rh factor 467
 - surgery 1119
 - criteria for 408
 - review 1398
 - in twins 156

(See also *Ear, middle*;
Fenestration; *Ossicles*;
Tests, auditory.)

Palate

abnormalities 633
development of 1498
motility of 1495
& pharynx 263
paralysis of 630
radiography of 543
(See also *Cleft palate*.)

Paracus Willisiana & speech audiometry 373

Pharynx

inflammation of 824
& palate 542
palatopharyngeous muscle 1497
radiography of 543

Phonation (See *Articulation*; *Larynx*; *Phonetics*; *Speech*; *Voice*.)

Phonemes

allophonic variations,
Spanish 182
American English 567, 921
discrimination, innate vs.
acquired 1488
length in Lebanese Arabic
920
meaning 201
singing vs. speaking 910
as speech unit 563
vowel quality 1213
(See also *Acoustics, speech*;
Phonetics.)

Phonetics 1516

American English 1521
assimilations 570
consonants, clusters 915
frequency in English 922
& noise 198
single vs. double 185
voiced vs. unvoiced 1524
cry, infant 1514
& dentures 1229
German vowels 1517
& heredity 1515
internal open juncture 572
pauses, filled vs. unfilled
1518
physiology 1520
pitch-pattern values 576
psychological view of 566
retarded children 930
segment inventories 1493
statistical methods in 577
syllable 917
syllabic nuclei duration 579
symbolization 1226
theory 662
vocal rate & pressure 562

vocal theory 939

voiceless plosives 561

(See also *Acoustics*; *Articulation*; *Phonemes*;
Respiration; *Speech*;
Voice.)

Presbycusis

& audiometry 735
& auditory reaction time 738
cause 120, 147
incidence 114, 119
& otosclerosis 379, 468
& psychological rigidity 173
White House conference
1198

(See also *Hearing loss*.)

Psycho-acoustics 723

after-effects, vs. vision &
kinesthesia 1085
binaural beats &
performance 1371
binaural summation of
loudness 731
detection 728
loudness 1368
optimum, model 26
uncertain message 913
duration, estimation of 365
figure-ground perception
1369
nonspeech stimuli 720
& pain suppression 1030
temporal interval, judgment
of 1084

(See also *Acoustics*;
Hearing; *Noise*; *Tests*.)

Psychogalvanic skin response (See *Tests, auditory*, *GSR*.)

Psycholinguistics (See *Language*.)

Pure tones (See *Equipment*; *Tests, auditory*.)

Reading (See *Education*, *reading*.)

Recruitment

& auditory fatigue 448
in diagnosis 1116
Fowler's vs. Lüscher's
method 402
& glaucoma 1430
& hearing aids 160
& hearing losses 109
& suprathreshold curves 378
(See also *Tests, auditory*.)

Reflex

acoustic 24, 363, 1069, 1377
contractions intra-aural
muscles 105
eye blink 21
of infants 724
light 398

middle ear muscle 705

orientation 68

Preyer pinna & X-ray 1055

psychovoltic 1098

tympanic, apparatus 1353

vocal cord 549

(See also *Tests, auditory*,
GSR.)

Respiration

capacity of children 889
in dysphonia 304
hyperkinetic & spastic 1589
mouth 681
mouth vs. nose 671
muscles of 536, 539
muscles of & speech 891
pneumoergometry 309
regulation in singers 191
residual air 548

Rhythm 1389

retardates vs. normals 669

Rubella, incidence, Britain 796 (See also *Deafness*; *Hearing loss*.)

School (See *Education*.)

Semantics

cognitive similarity 580
& color, judgments of 1237
cross cultural 1232
development 1527
dynamics, GSR study of 204
experimental manipulation
1234
general 581
intonation 1248
perception, unconscious 1528
preschool child 1233
semantic differential 1234
& source of data 1238
(See also *Cybernetics*;
Education; *Language*.)

Semicircular canals (See *Vestibular function*.)

Sensory deprivation 512, 1378 (See also *Deafness*.)

Side-tone (See *Feedback*.)

Signal detection (See *Hearing*.)

Sign language (See *Communi- cation*; *Education*; *Language*.)

Sound (See *Acoustics*.)

Speech

amplitude sampling 914
& anxiety 1595
& brain, text 953
cerebral dominance 192
cinéfluorographic study 544
clinic design 1321
& communication theory 904
dialect, German 1519
review 200

- duration 918
 electrocutaneous perception
 of 502
 evaluation 533
 & expiratory muscles 536, 539
 improvement, child 931
 manual 1228
 isoniazid, effects on 329
 melody & intensity 919
 Negro vs. white 205
 origin 569
 pauses in poetry 916
 & personality 906
 audience stress 1505
 & reading 1537
 repetition & time lag 316
 & respiration 891
 speed, & phrase length 1227
 of Spanish 565
 (See also *Conditioning*.)
- Speech, acoustics
 air vs. bone conduction 1212
 analysis, computer 1491
 of esophageal speech 1009
 formants, band width 1513
 & intelligibility 1513
 vs. musical instruments 939
 fricatives, analysis of 188
 voiceless 1487
 humming 1492
 intensity, psychomotorics of
 189
 liveness & intelligibility 1512
 zero-crossing wave 186
 (See also *Equipment*;
 Phonemes; *Phonetics*;
 Tests; *Voice*.)
- Speech, delayed 196
 & aphasia 952
 diagnosis & therapy 640, 949,
 1568
 etiology 996
 imbecile, case 998
 infantile autism 276, 277, 997
 marginally deaf 1277
 mentally retarded twins
 1275
 mongoloids 1274
 psychotic children 1570
 text 1571
 in triplets 1569
 (See also following.)
- Speech development 212, 564
 of five-year olds 591
 & intonation 208
 linguistic generalization 593
 mentally retarded 213, 590
 & motor proficiency 282
 psychologic factors 209
 & reading to infants 210
 of second language 588
 of verbal categories 211
- (See also following.)
- Speech, intelligibility
 of alphabet 555
 & articulation 962
 of cleft palate 1270
 & clipping effects 559
 vs. fast limiting 196
 & consonant perception 1513
 constant-ratio rule 198
 distorted 911
 evaluation 943
 & equipment 909
 prediction 912
 of foreign speakers 558
 & English stops 573
 & frequency spectrum 554
 of hard of hearing 504
 & hearing aids 1443
 & liveness, acoustic 1512
 & multiple cues 911
 narrow band-pass filters 556
 in noise 194
 number telling methods 557
 pitch change 1224
 review 1509
 sentence length & noise
 1223
 of singing vs. speaking 910
 & time compression 1510
 of words 197, 1222
 familiarity of 1511
 (See also *Acoustics*; *Educa-*
 tion; *Language*; *Larynx*;
 Tests; *Voice*.)
- Speech pathologist
 accreditation, public school
 1308
 & certification 1300
 Britain 1020
 New York 1604
 & community relations 1319
 definition 1023
 & medical profession 1303,
 1315
 need for 324, 1306
 & neurological deficit 1322
 philosophy for 1311
 & private practice 1603
 professional status 1035,
 1036, 1038
 in public schools 1307
 responsibilities of 1299
 specialization 1302
 training 326, 1034, 1301, 1310,
 1596
- Speech pathology 1276, 1534
 & age 114
 & audiology 1024
 & autonomic nerves 1279
 Avellis's syndrome 303
 & brain lesion 281, 951, 956,
 1264
- cerebral palsy 1557
 schizophrenia 1573
 classification 1575
 cluttering 1015
 diagnosis 1003
 dysphasia, acquired 946
 & intelligence 955
 dysphonia, psychogenic 1282
 & epilepsy 1550, 1556
 Europe 1039
 & glossitis 1551
 heredity 1533
 incidence 1316, 1576
 & intelligence tests 1574
 neurological disorders 898,
 1199
 & neurologist's role 279
 & personality 1204
 & phonetics 574
 radiography 278
 research needs, S. Africa
 1592
 Russia 1305
 sociometry, children 695
 tachylalia 1016
 tachyphemia 1568
 terminology 1021
 text 1591
 twins, retarded, text 1275
 velopharyngeal incompetence
 988
 verbal/nonverbal factors
 836
 (See also *Aphasia*; *Articula-*
 tion; *Communication*;
 Laryngeal surgery;
 Speech therapy; *Stut-*
 tering; *Tests*; *Voice*.)
- Speechreading
 & deafness 853, 1136
 Jena method, text 1450
 & letter prediction 1455
 parents' role in 779
 of phonemes 508
 & psychological factors 1470
 television, teaching by 1194
 testing potential for 839
 text 1453
- Speech therapy 960
 adults, postsurgery 982
 aphasia 602
 with art & music 1594
 attitude, mother 1257, 1258
 cerebral palsy 252, 967
 cleft palate 272, 620
 with obturator 969
 combining techniques 419
 deaf 439, 1103
 dysphasia, acquired 946
 dysphonia 304
 Europe 317
 functional disturbances 241

- Great Britain 1314
goals 319
Japan 1317
mental retardates 336
motivation 330
nondirective test 1291
Pennsylvania 1032
& physical therapy 1278
Russia 314
school facilities, urban 1040
sheltered workshop 336
theory vs. practice 934
(See also *Aphasia; Articulation; Education; Laryngeal surgery; Stuttering; Tests; Voice.*)
- Stammering (See *Stuttering.*)
Stapes (See *Ear, middle; Ossicles.*)
- Streptomycin (See *Drugs.*)
Stuttering 294, 648
adaptation & recovery 1293
attitudes toward 292
& auditory localization 351
bibliography 1290
& cluttering 1015
constitutional factors 299
control of 651
development of 649
definitions 293, 295
diaphragmatic action of 654
& endocrinology 650
& feedback 655
delayed 1012
learning theory 297, 1290
mother, presence vs. absence of 1014
pause durations 1011
personality, vs. hard of hearing 1583
& placebos 653
prevention 1013
psychoanalysis of 300
review 290, 652
self-concept & body image 1294
servo theory 296
text 1292
& tranquilizers 291
vibratory thresholds 298
(See also *Feedback; Speech; Speech therapy.*)
- Teaching (See *Education.*)
Teaching machines (See *Education.*)
Temporal lobe (See *Cortex, auditory; Deafness; Hearing loss.*)
Temporary threshold shift (See *Fatigue.*)
Tests, auditory 386, 400, 1379
& age 735, 737
American vs. British 388
audiometers, evaluation of 734
autophonic loudness scale 1542
Békésy 385, 753
bone conduction 383, 1095
calibration 1096
M-R 1097
Rainville 376
of brain-damaged 93, 95
caloric 105, 107
Carhart's & brain damage 1113
catheter, auditory in otosclerosis 1402
of children 380, 387, 389, 1112, 1196, 1193
adolescents 1091
brain-damaged 739
cerebral palsied 321, 1554
deafness vs. mental retardation 1394
Pedacounter 52
preschool 62, 1090
public school screening 1382
reliability & MA 737
conditioned orientation 68
of directional hearing 714
discrimination 20
double frequency 393
EEG 688
area-centroid method 1338
rise time 1345
eye blink suppression 21
of fatigue 384
of fenestra rotunda 83
Gellé 391
GSR 63, 387, 390, 397, 398
711
age & intelligence 1375
& deaf child 1384
preschool 1397
& drugs 696
individual differences 1080
of infants 1386, 1387
of mental retardates 1099
& personality 852
vs. psychovoltaic 1098
of Rh athetoids 1120
of hearing aids
reliability 494
history 46
of integration 366
Kietz 57
lateralization, monaural loss 1118
loudness judgment 1083
loudness tracking 367
malingering 21, 97, 374, 741, 762, 763, 1101
masking, indications for 1102
mental retardates 390, 405
in multiple sclerosis 1385
mumps, pattern after 101
objective (See *GSR.*)
& otosclerosis 1383
Pavlovian Theory of 23
pressure-log chart 71
of recruitment 54
reflex explanation of 23
speech audiometry
CID W-1 1088, 1092, 1093
German-Swiss dialect 1380
modified 1100
& paracusis Willisiana 371
phase distortion 1086
prediction of SRT 736
vs. pure-tone tests 738
sentence intelligibility 73
Spanish patients 1094
validity of objective test 72
& word familiarity 394
zero level 50
& socioeconomic status 525
spectral analysis of noise 827
suprathreshold 378
in surgery 808
& weather conditions 894
Weber test 98
fenestration prognosis 75
(See also *Bone conduction; Equipment; Masking; Threshold.*)
- Tests, language
acquisition second language 588
Aminous FRPV, Japanese 584
aphasia, Fisenon 1544
Bender vs. Lee-Clark 1532
C. P. children 280
development, elementary 1541
Differential Language Facility 1243
& EEG 592
& mental retardates 692
intelligence 516, 1574
memory for word forms 1538
nonverbal child 313, 517, 1570
Semantic Differential 1234
& intonation 1248
spoken, deaf child 503
Verbal Language Develop. Scale 616
vocabulary 1573
(See also *Equipment.*)

Tests, speech

- articulation 240, 247
 - cerebral palsied 1558
 - Hudgins method 961
 - Templin 248
 - cerebral palsy 610, 611, 612, 613
 - cleft palate 987, 1270
- autonomic reactometer 1279
- cerebral dominance 1577
- cleft palate 258
- EMG, laryngeal muscles 1245
 - vocal cords 1246
- factor analysis of 199
- foreign speech ability 583
- GSR 204
- infant 268
- intelligibility 566
 - multiple choice 554, 560
- lateralization, cerebral 192
- Maria Hess 1281
- of nasality 991
- norms, laryngectomies 287
- pneumoergometry 309
- recognition & synthesis 187
- reliability 206
- spectrographic 188
- subglottal pressure 891
- subgrams 885
- zero-crossing waves 186
- (See also *Equipment*.)
- Tests, vestibular
 - cold oxygen 110
 - electronystagmography 1054
 - electronystagmometer 129
 - Fitzgerald & Hallpike's 798
 - goniometry 64
 - rotatory, intermittent 1352
 - twisting-pendulum test 713, 1355
- (See also *Equipment*.)
- Theory (See under major headings.)
- Therapy (See under major headings.)
- Theses (See indices on Pp. 102 and 389-390.)
- Threshold, auditory
 - age 53
 - American vs. British 388
 - cat 22
 - computer measurement of 1370
 - & cortical factors 377
 - by delayed clicks 1089
 - & low-intensity stimulation 395
 - & masking level 1357
 - practice effect 1363
 - prediction of SRT 736

pure tone & pressure changes

- 1431
- quantal hypothesis 1359
- random noise & pure tones 1079
- rat 25
- rural adults 382
- of short tones 381
- & summation, theory 371
- suprathreshold curves 378
- (See also *Deafness; Fatigue; Hearing; Tests*.)
- Tinnitus
 - & atherosclerosis 447
 - case 818, 1428
 - galvanic stimulation, effect of 90
 - loud sound, effect of 1124
 - & nerve deafness 755
 - subjective 66
- Tongue, hypid larynx
 - relation 546
- (See also *Speech*.)
- Tympanoplasty 476, 478
- endaural 138
- & crossbar prosthesis 491
- otitis media 81
- recurrent perforation 463, 469
- results 76, 102, 479, 754, 756
- spontaneous 92
- techniques 153
- vein grafts 480
- Wullstein Type IV 471
- Tympanum (See *Ear, middle; Tympanoplasty*.)
- Vestibular function
 - & acoustic stimuli 392
 - aphasia 1125
 - & brucellosis 481
 - & carbon monoxide 826
 - & cervical syndrome 104
 - & chronic otitis 152
 - & cranial trauma 142
 - & deafness 328, 1125
 - dysrhythmic nystagmus 472
 - & epilepsy 442
 - experimental analysis of 337
 - after fenestration 410
 - & noise
 - boilermaker 137
 - jet 64, 1066
 - nucleus fastigii, destruction 1049
 - nystagmus 1054, 1114
 - & polio 1163
 - & reticular formation 3
 - & starvation 4
 - threshold 361
 - vertigo, Hydergin test 1108
 - post stapedectomy 1184

(See also *Nerve VIII; Tests, vestibular*.)

Vibratory sense 358

& rhythm 1389

& Seebeck phenomenon 1329

Vitamin

B₁₂ therapy for hearing loss 750B₁₂ therapy for hearing loss 821

deficiencies

& inner ear 1

E deficiency & hearing loss 5

& dentofacial anomalies 973

Vocabulary

acquisition methods 1242

in air traffic control 927

basic for children 929

building, deaf child 1189

of mental retardates 1241

Peabody Picture Vocab.

Test 1026

(See also *Education; Language; Speech; Word*.)Vocal cords (See *Larynx*.)

Voice

abuse 305, 311

in acromegaly 1586

& adenoids 893

vs. aspiration of consonants 1524

classification 302

& cleft palate, repair 258, 262

after cordectomy 284, 285

diagnosis 301

disorders 1585, 1590

heredity 1587

incidence, children 940

laryngeal stridor 1298

psychogenic 1282

text 1019

ventricular 1285

& endocrine disorder 1018

esophageal 289

vs. artificial 1009

case 1296

& emotions 1006

pitch 1580

falsetto 595

genetics 308

hyperkinetic dysphonia 1588

of hypnotists 596

intonation 1522

in acquisition 208

comparative 203

& larynx size 219

& loudness scale 1542

nasality 991

neuromuscular index 541

physiology of 224

pitch & emotions 1489
 & vocal cord length 1543
 professional speakers 216
 quality & dental plates 246
 & respiration 304
 & sex hormones 1584
 & sexual precocity 1017
 singing, glottograms of 218
 spastic dysphonia 664
 substituted 656
 tongue-hyoid-larynx 546
 trainer, Plant-Mandy 169

of twins 594
 ventricular phonation 896,
 1295
 & vocal fold length 220, 221
 (See also *Laryngectomy*;
Larynx; *Speech*.)

Waardenburg syndrome (See
Deafness.)

Word

Alphabets, word-spelling 926
 associations & grammar 928
 of national groups 1236

& paired associate learning
 1526
 classification & structure 1525
 counts, air traffic control 927
 frequency & learning 905
 & aphasia 1256
 & letter constraints 1218
 vs. pictures in learning 1539
 productivity 674
 recognition, parameters of
 1235
 stress 184

ng
525
927

9